

## **SYSTEM FOR MANAGING A USER PROFILE IN A RADIOCOMMUNICATION SYSTEM.**

### **OBJECT OF THE INVENTION**

5           The present invention relates to a radiocommunication system and, more particularly, to a method and system for managing information of different profiles for a same subscriber portable telephone terminal.

### **STATE OF THE ART**

10           A subscriber to a radiocommunication system has the facility to define various operating modes for his mobile terminal. Said operating modes or subscriber profiles are stored in a base position register of the radiocommunication system.

15           The radiocommunication system has administration means for carrying out the allocation of a determined subscriber profile for a geographical location of the subscriber terminal. The allocation of a determined subscriber profile is carried out on the basis of the geographical location where the subscriber terminal is situated.

20           Consequently, the mobile terminal has means for communicating its geographical position (namely latitude, longitude and altitude) to the administration means. As a function of said geographical position, the administration means allocates to the mobile terminal the subscriber profile corresponding to the geographical location of the subscriber terminal.

25           A state of the art solution that describes a radiocommunication system the coverage area of which is divided into various cells and that permits changing of subscriber profile is known from U.S. Patent No. 5,568,153 to Bélieu, included in this patent application through reference.

30           This radiocommunication system has a base position register in which are stored geographical coordinates of base positions for the subscriber and has means for defining personal areas of base positions centred on the base positions of the subscriber.

          The system also has means for determining the current geographical position of the subscriber, for the purpose of determining whether the current geographical position of the subscriber is situated within a defined personal area of base positions.

35           The system has means for establishing the characteristic parameters of



a plurality of subscriber profiles on the basis of the technical characteristics of a mobile subscriber terminal.

The profiles for a subscriber are stored in an administrator means.

#### **BRIEF DESCRIPTION OF THE FIGURES**

5 A more detailed explanation of the invention is given in the following description, based on the figures attached, in which:

- figure 1 is a block diagram of a first control means of a fixed unit and a mobile telephone terminal in a radiocommunication system according to the invention.

#### **DESCRIPTION OF THE INVENTION**

10 Referring to figure 1, a fixed unit 11-1 includes a first transmitter means, a first receiver means, and a first control means. The latter realizes, among other functions, a fixed unit controls function and a communication function with administration means 11-3 of the radiocommunication system.  
15 The administrator 11-3 is capable of storing a plurality of modes of use (subscriber profiles) defined by each user for mobile telephone terminal 11-2.

The mobile telephone terminal 11-2 includes a second transmitter means, a second receiver means, and a second control means as well. The second controller produces an output signal to first controller and receives  
20 output signals from it. The second controller maintains a mode of use and times the occurrence of an incoming administration signal in relation to the mode use. The results of requests are sent to the first control means, which in turn provides new parameters for the mode of use.

In addition, the administrator 11-3 receives requests from the second  
25 controller and informs the first controller and the second controller about the mode use requested by the user.

Thus, a subscriber is able to define various modes of use for a particular mobile telephone terminal 11-2. While the user defines the different modes of use, each one of these modes incorporates the particular functions  
30 of the mobile telephone terminal 11-2. Hence, said subscriber has available each mode of use according to his requirements.

In an embodiment, the administrator 11-3 such as a general home location register HLR of subscribers is capable of storing the different modes of use defined by each subscriber for his mobile terminal or terminals 11-2. The  
35 HLR is connected to the second controller through the first controller over radio